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Geoprofiles and Data about Data

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GEOPROFILES AND DATA ABOUT DATA

WKU student research conference

Dept. of Geography and Geology

**Dolly Na-Yemeh, Kevin Cary, Rezaul Mahmood, Gregory Goodrich,
and Joshua Durkee.**



— KENTUCKY **MESONET** | WKU



Overview

- Introduction
 - Purpose
 - Significance
- Methodology
- Results





...AND HERE WE HAVE OUR DATA VISUALIZATION TEAM. THIS IS DAVE OUR PIE CHART SPECIALIST, LENNY IN BAR GRAPHICS, AND SPENCE, OUR SCATTERPLOT DESIGNER.



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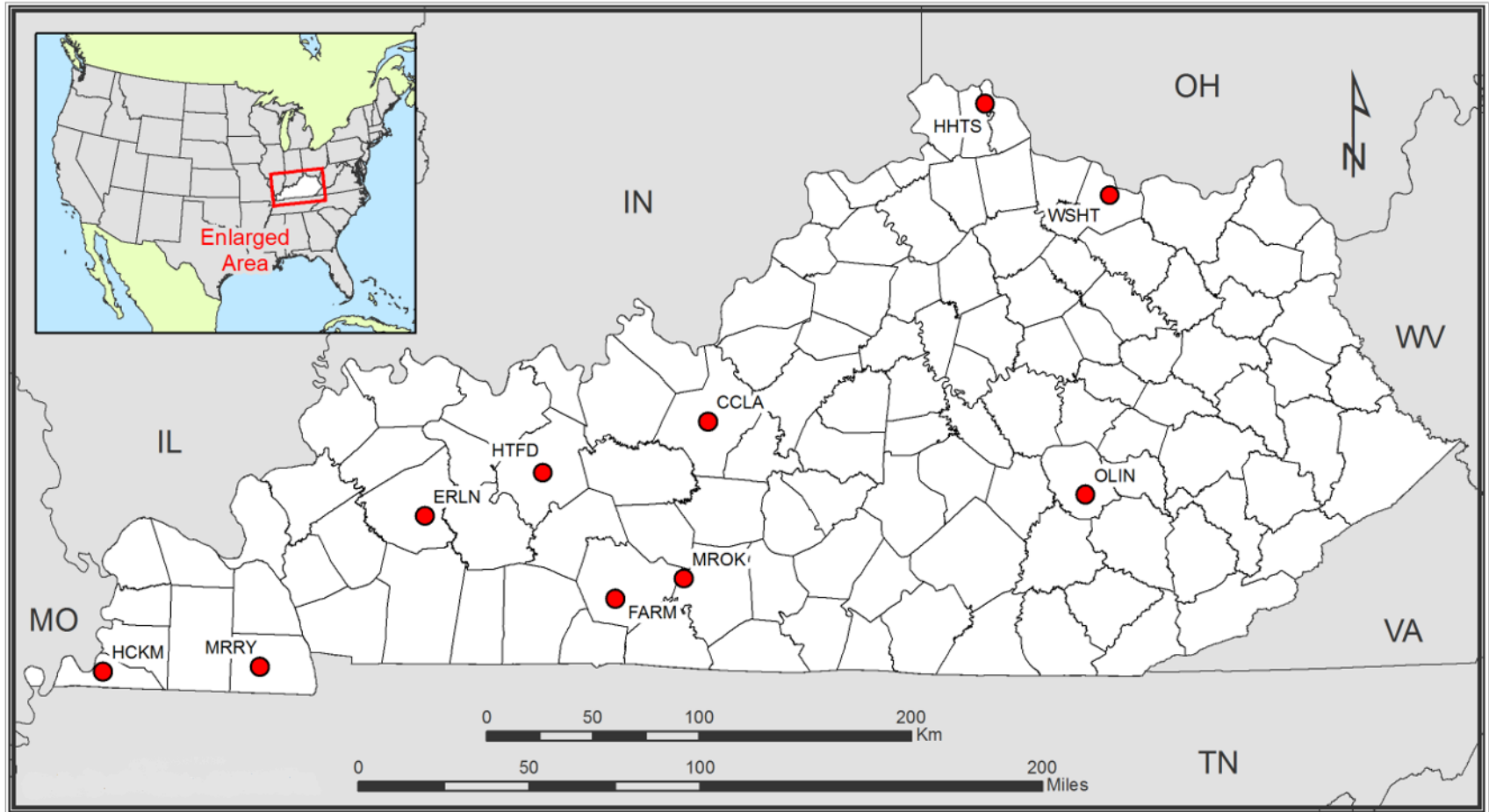


Figure 1. Selected Kentucky Mesonet Stations.

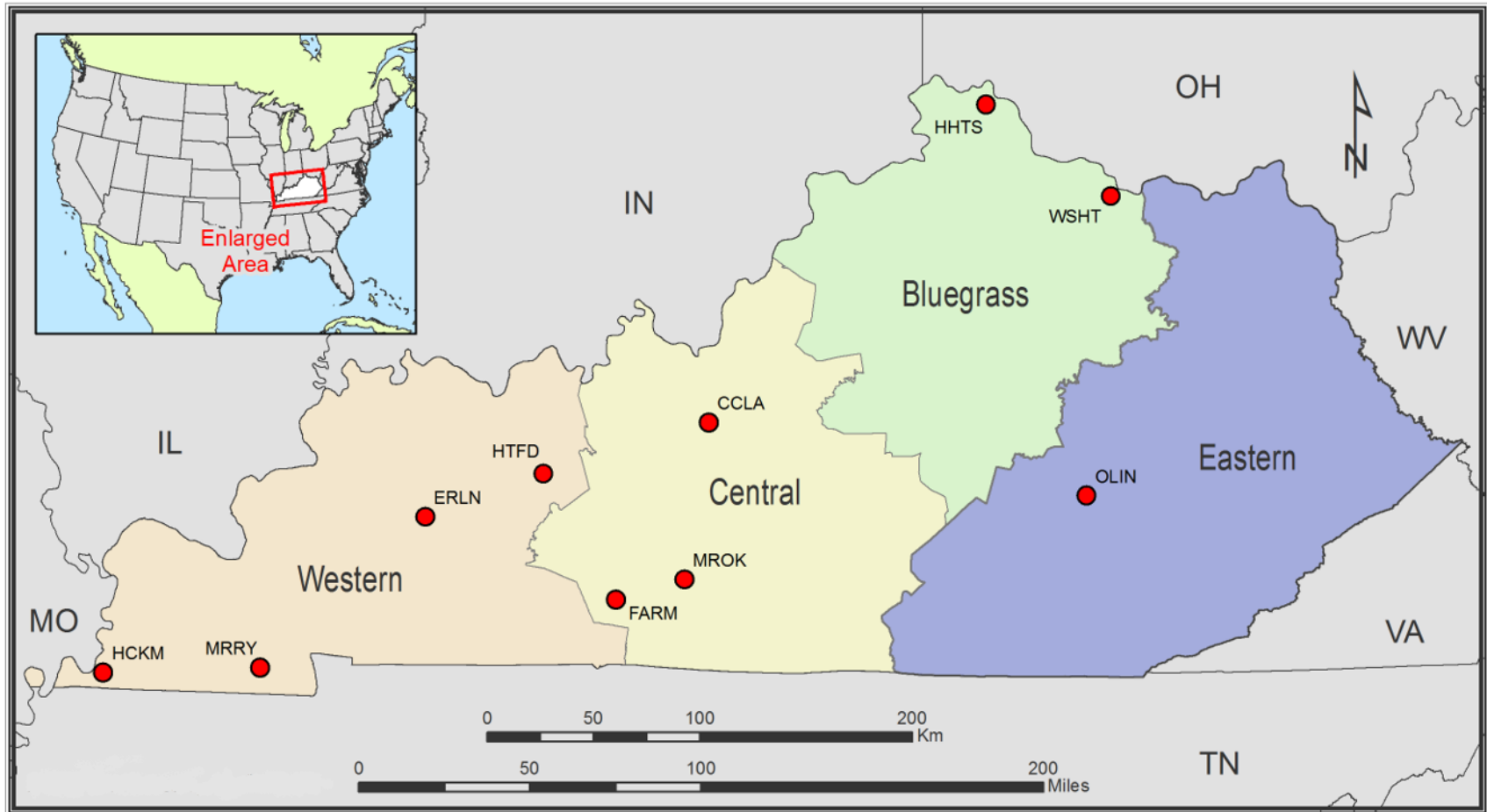


Figure 2. Selected Kentucky Mesonet Stations and Climate divisions.

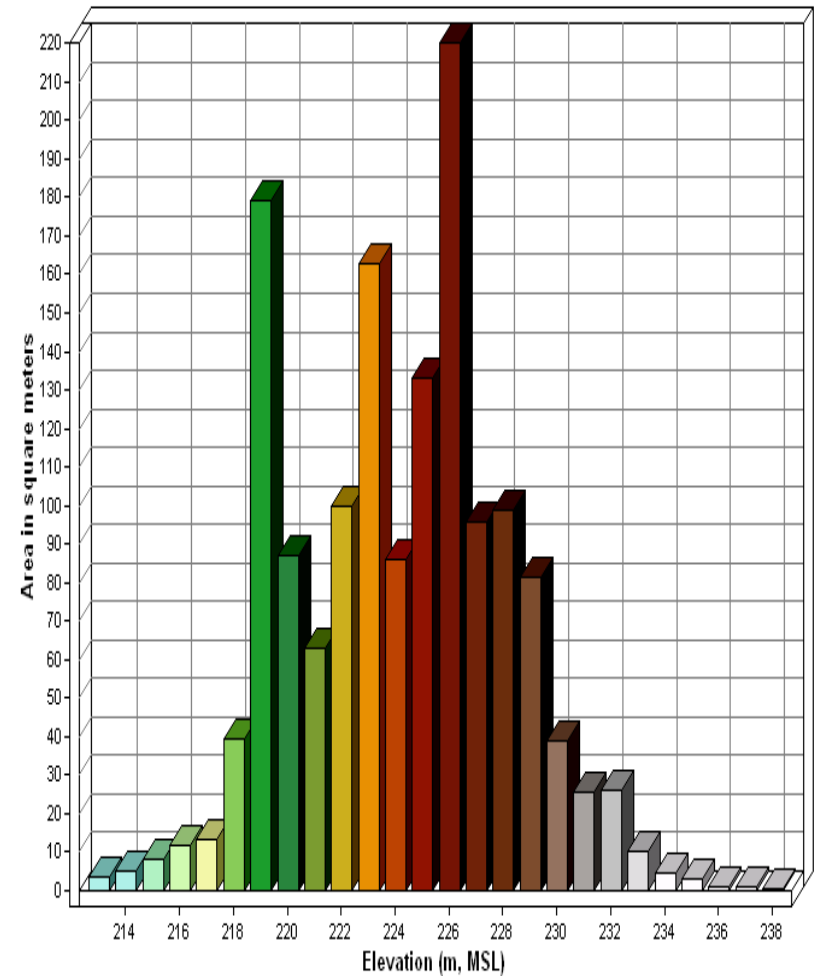
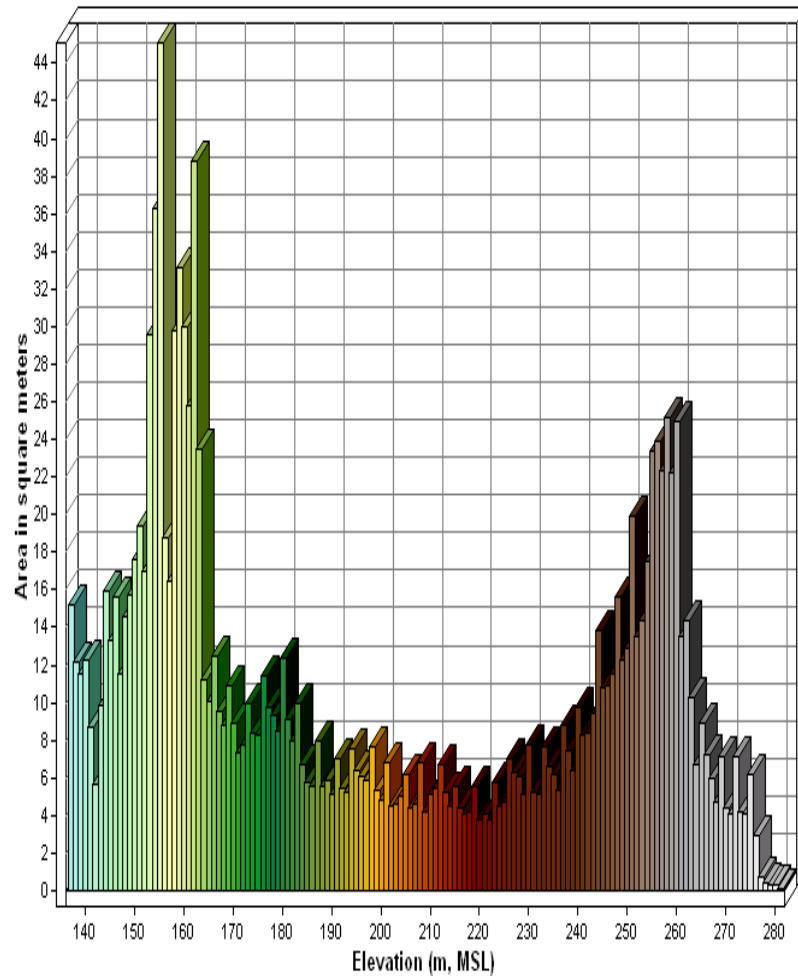


Figure 3. Elevation of the 1.5 km area around the Campbell and Hardin County Mesonet stations.

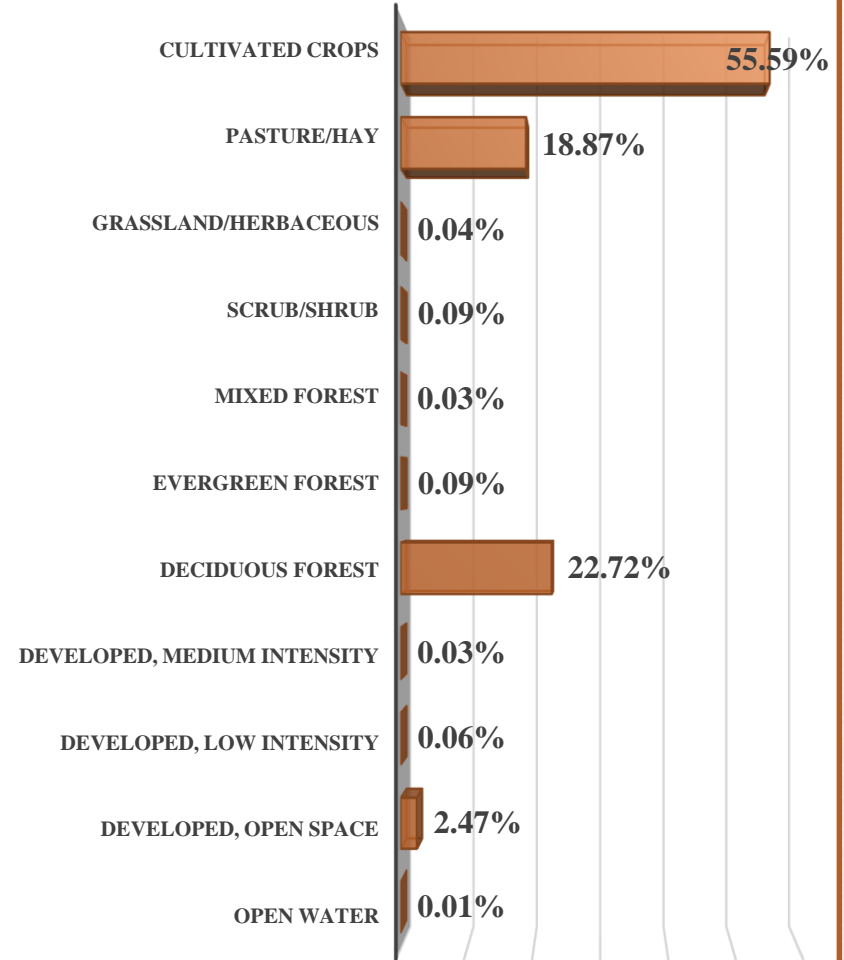
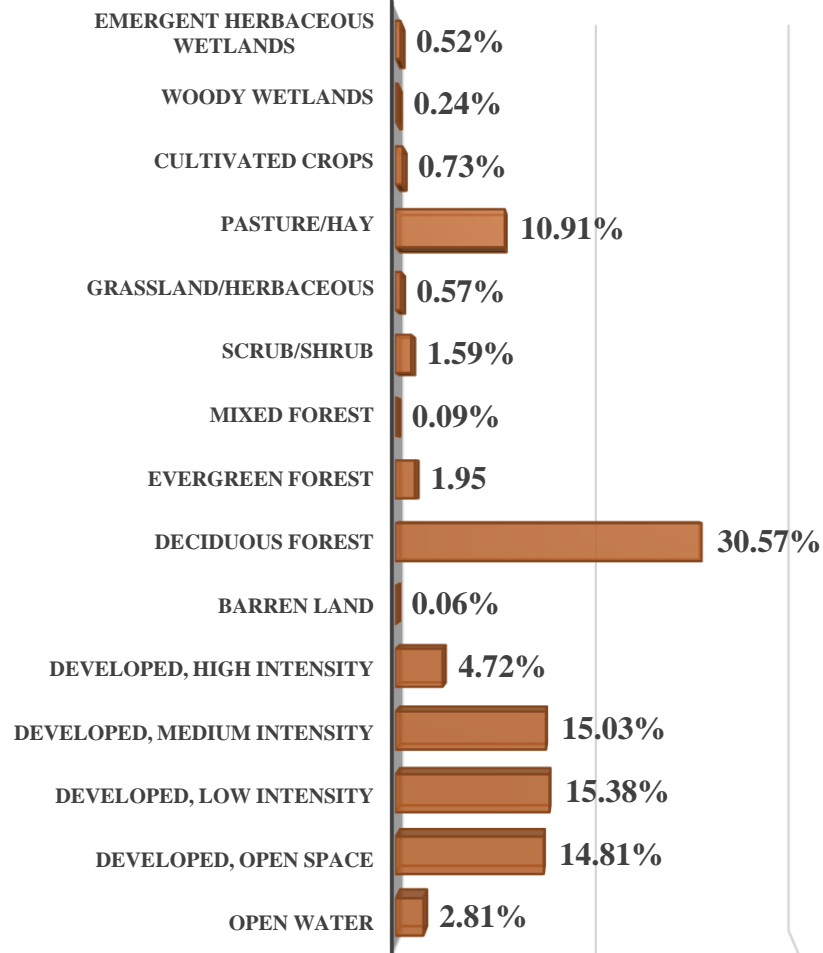


Figure 4. Percentage distribution of land cover of the 1.5 km area around the Campbell and Hardin county Mesonet stations.

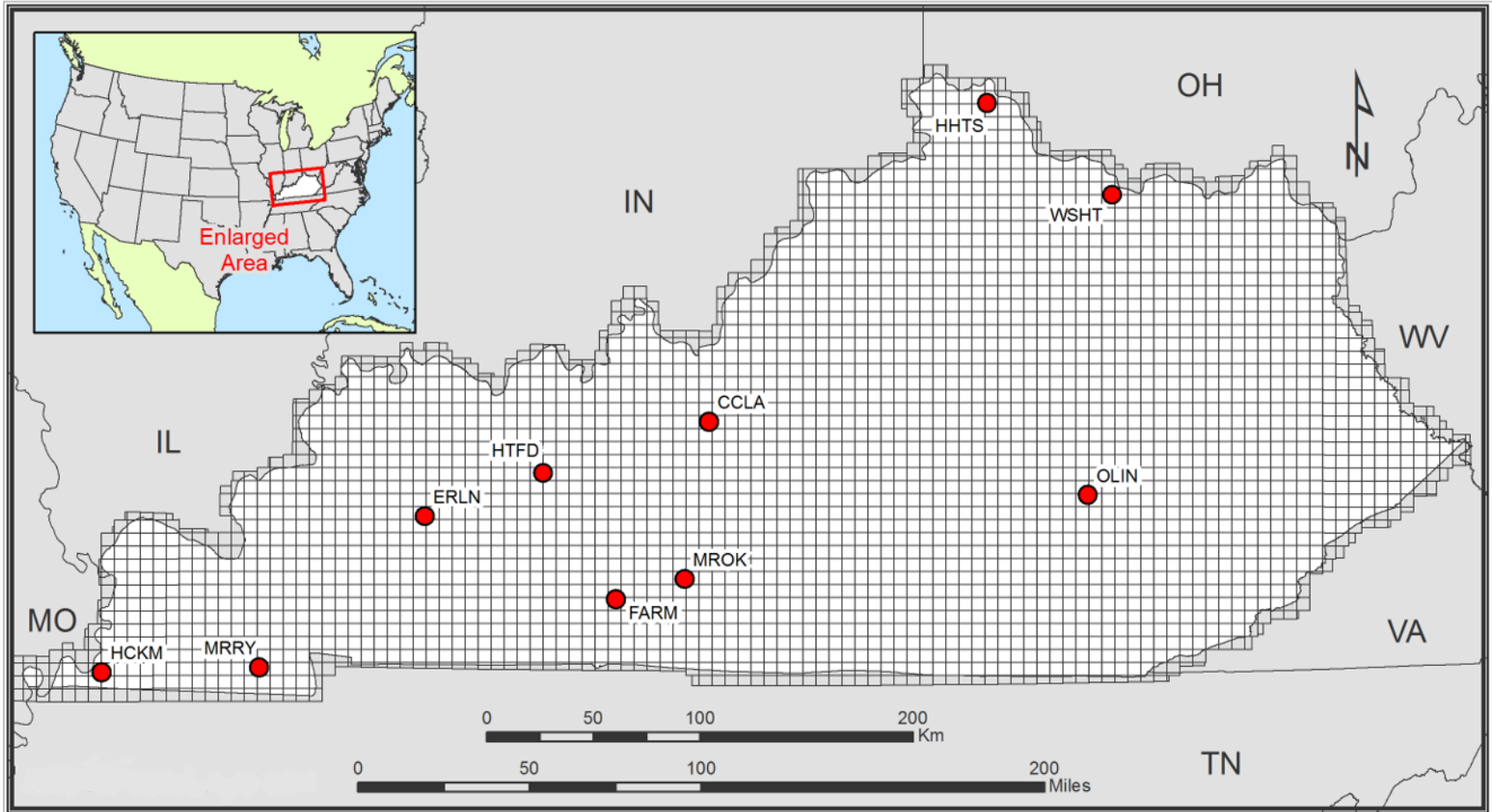
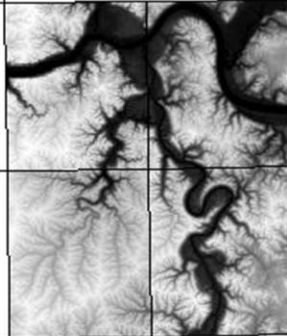
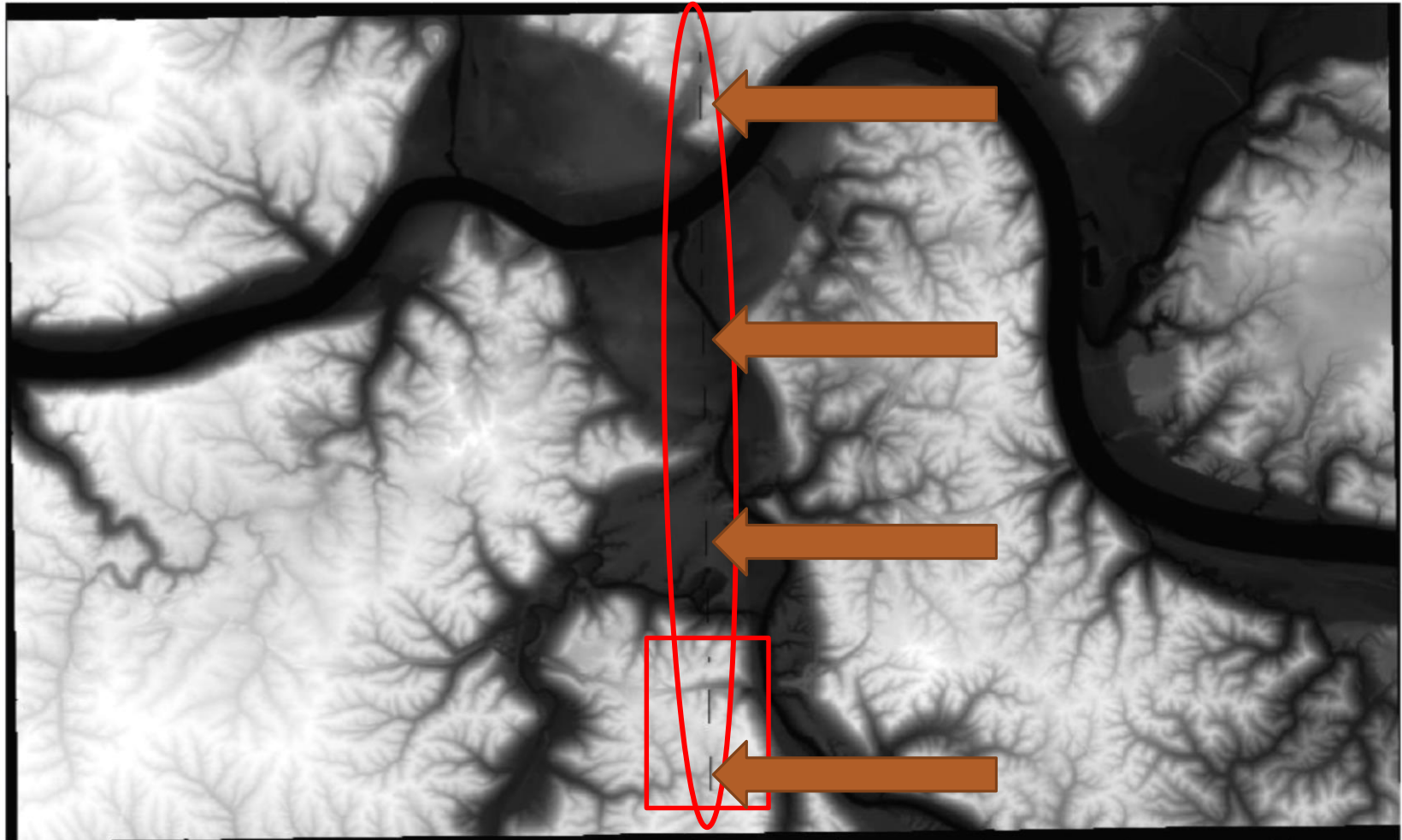
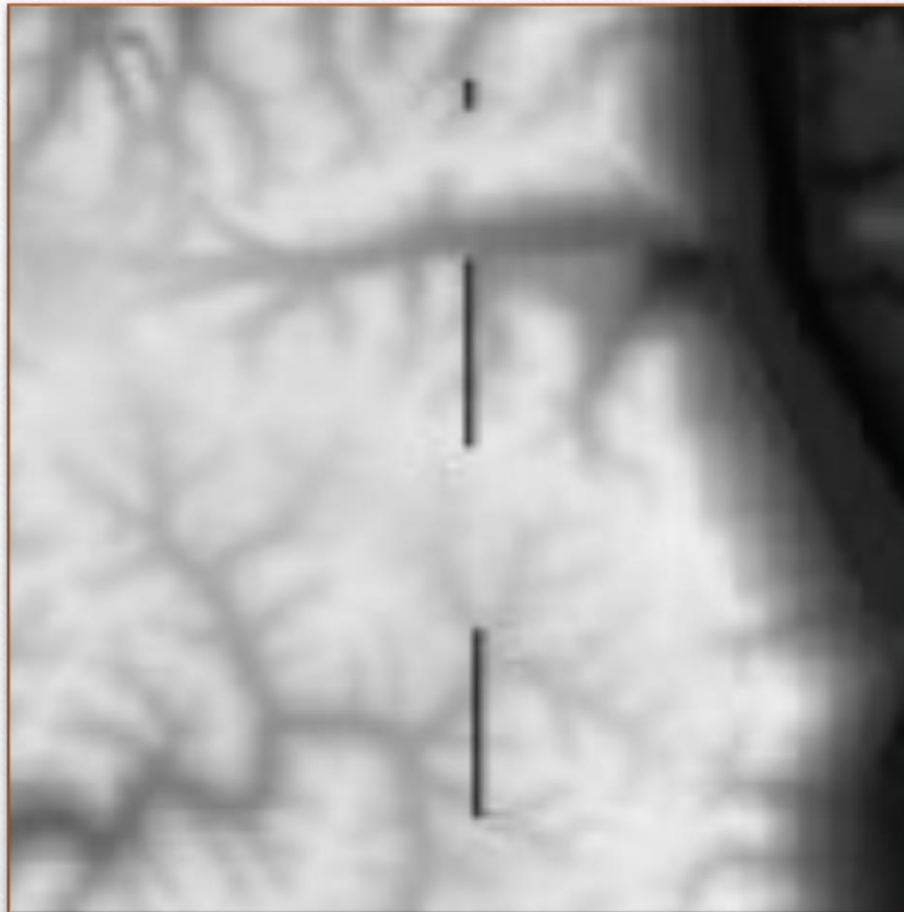


Figure 5. Quadrangle index for Kentucky.









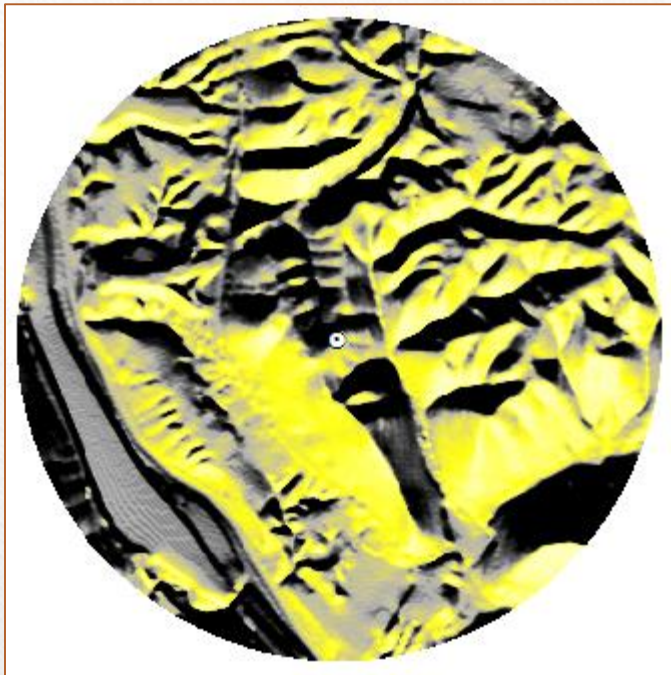
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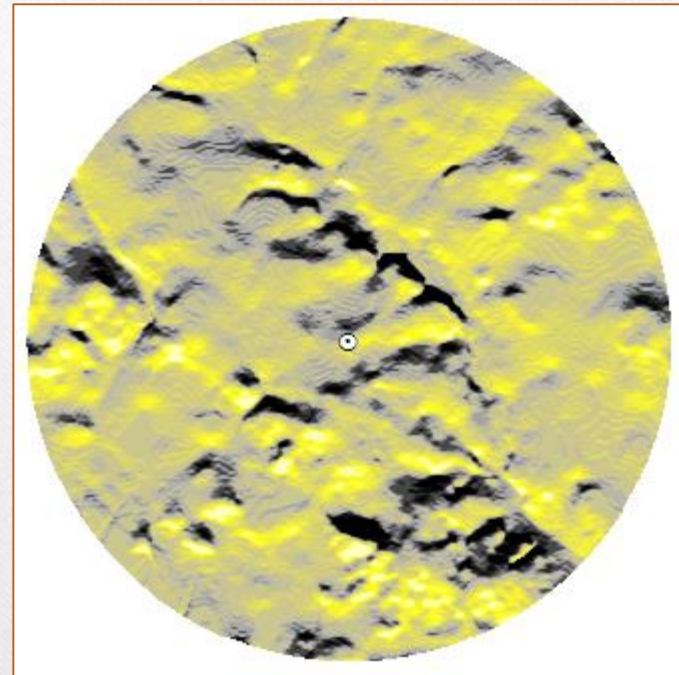





Hillshade



Campbell Co.



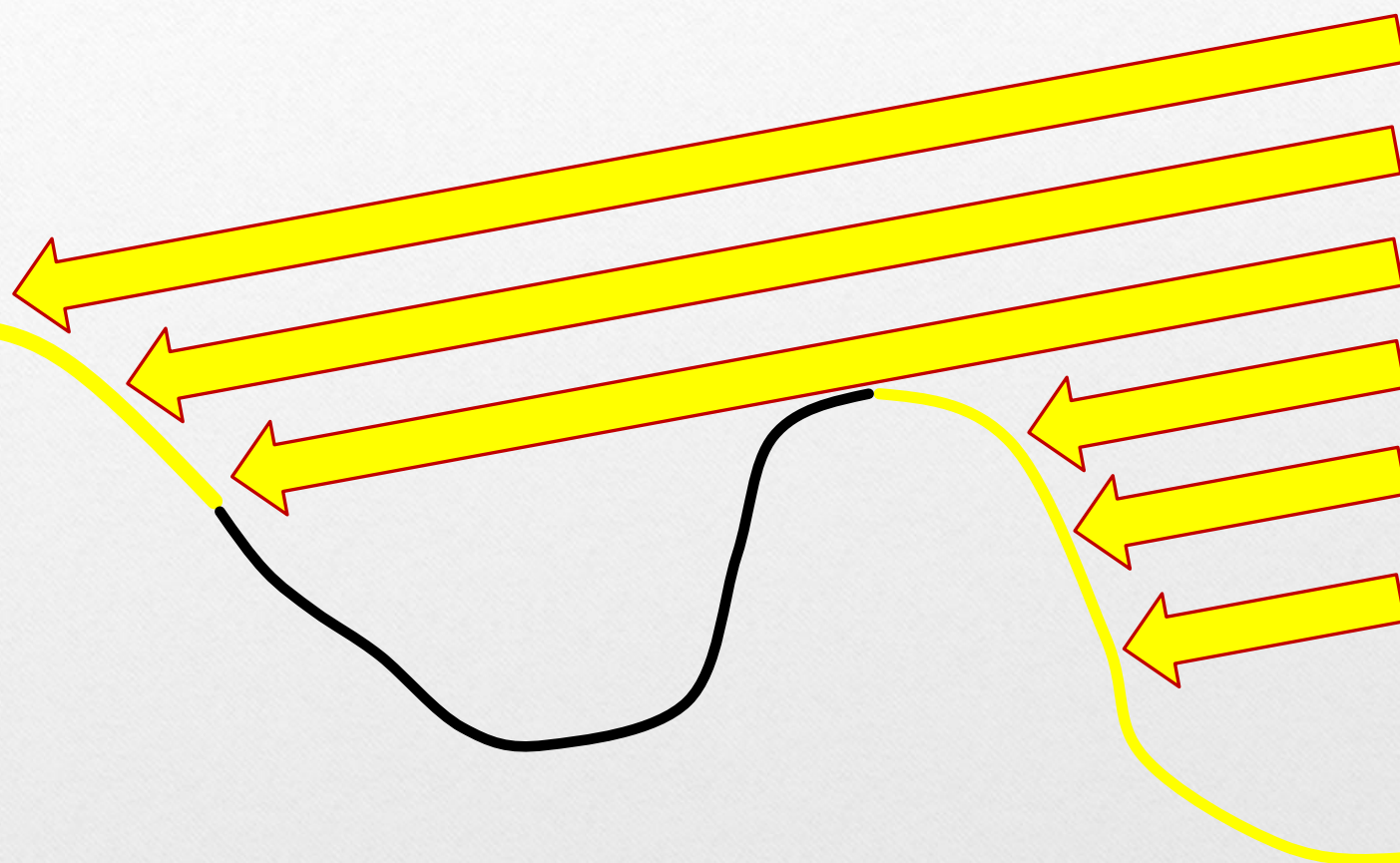
Hardin Co.





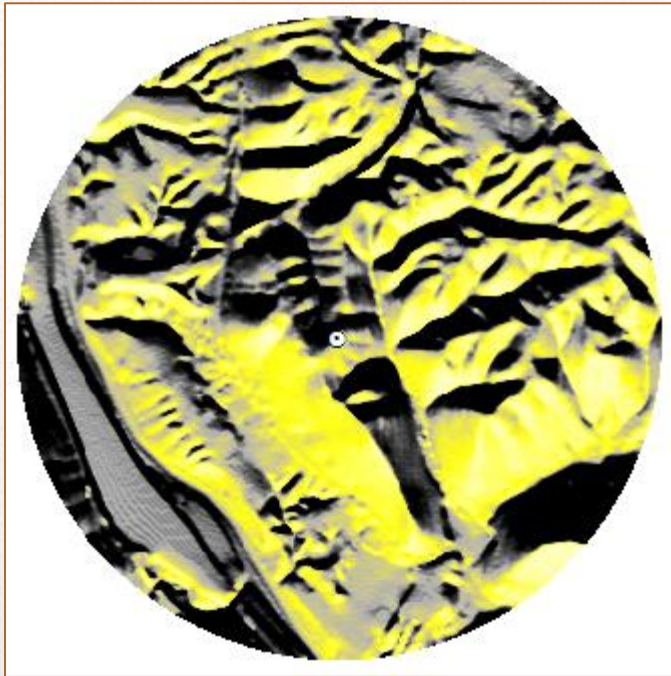
North

South

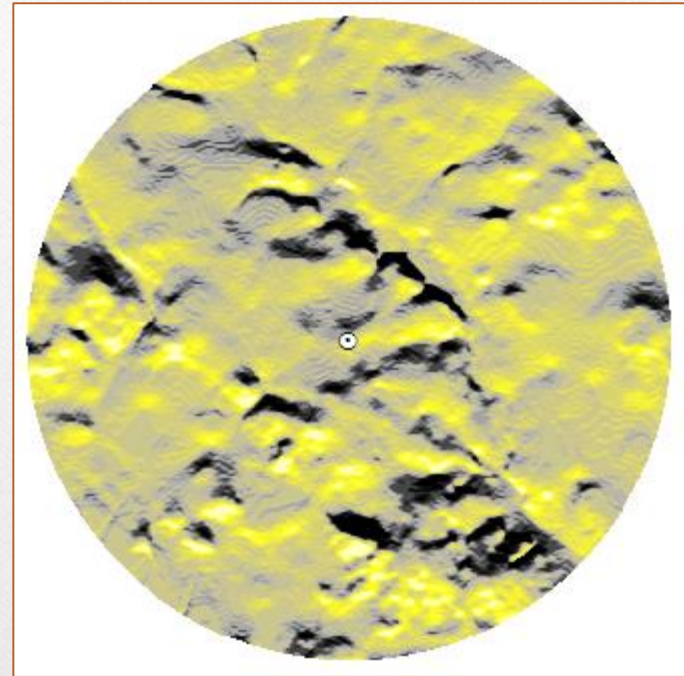




Hillshade



Campbell Co.

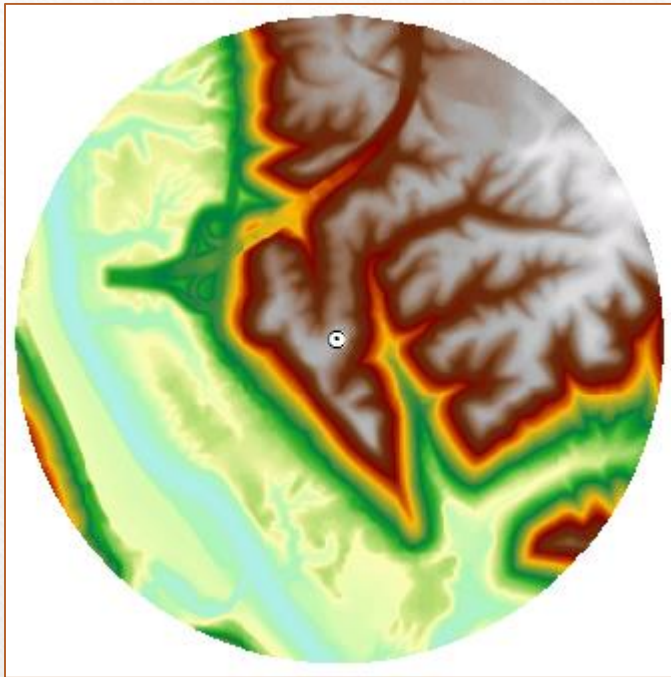


Hardin Co.



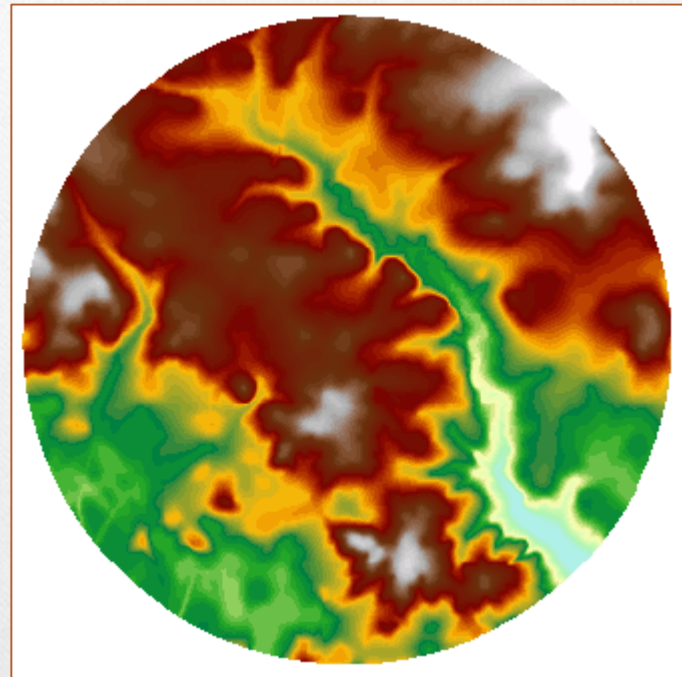
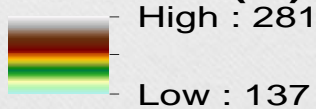


Elevation



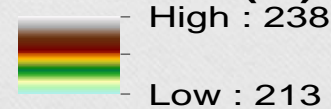
Campbell Co.

Elevation (m)



Hardin Co.

Elevation (m)

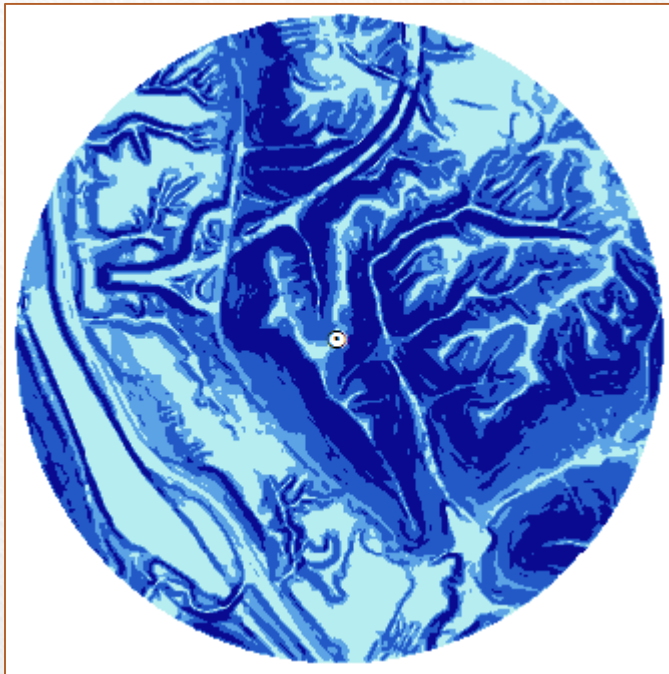


N
↑
↓
N



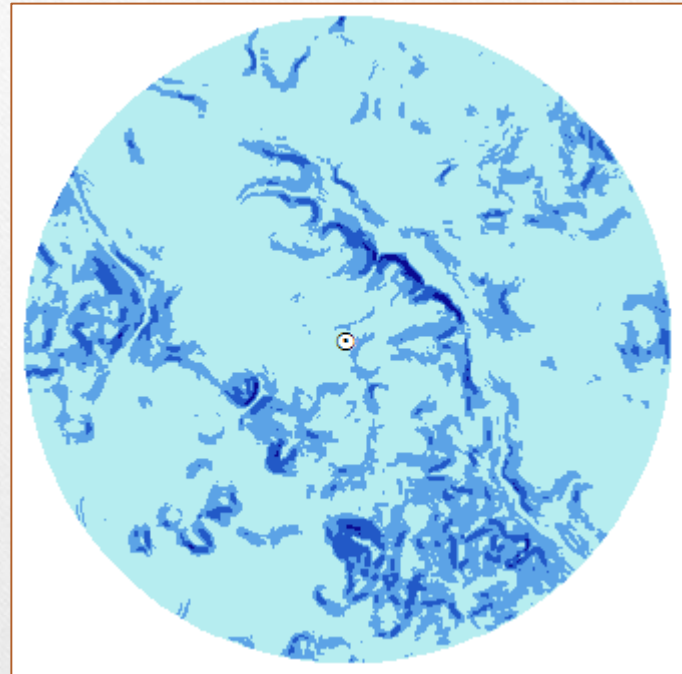
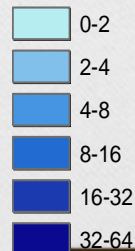


Slope



Campbell Co.

Slope (Degrees)

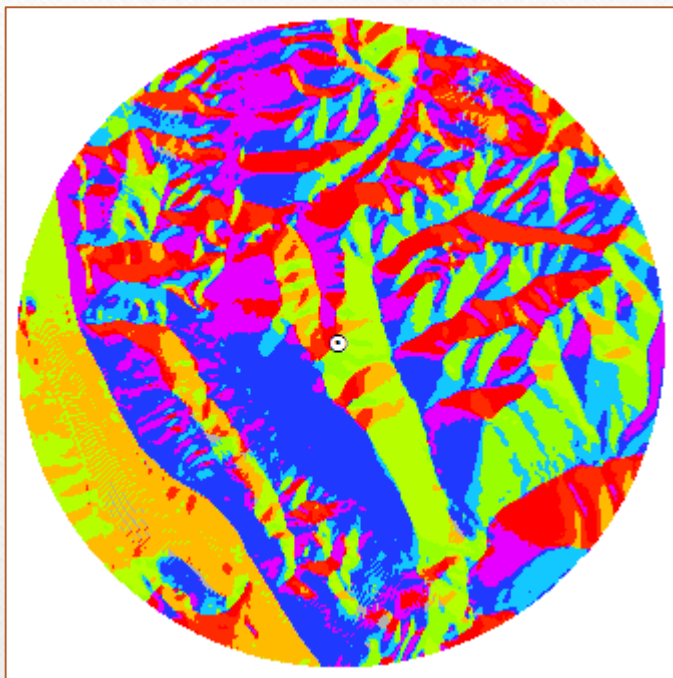


Hardin Co.

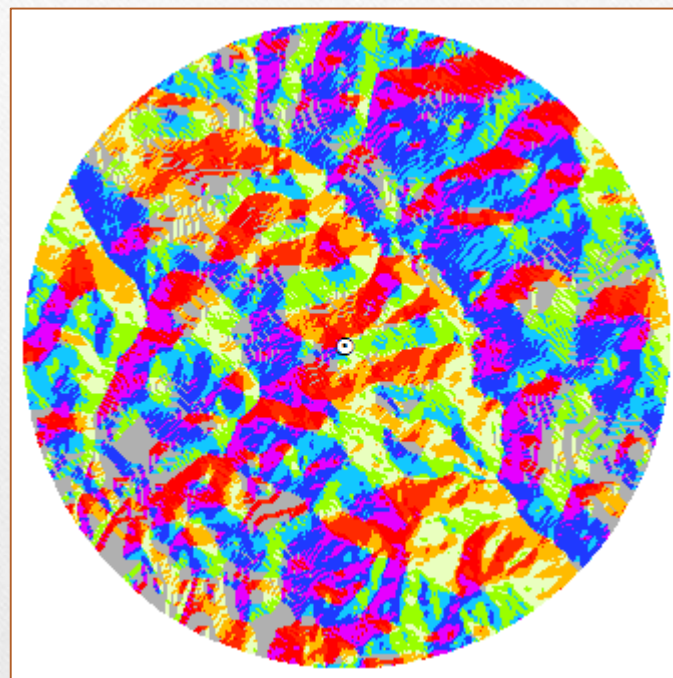




Aspect

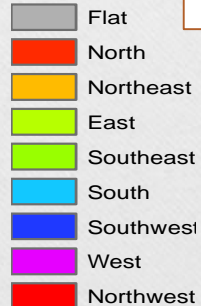


Campbell Co.



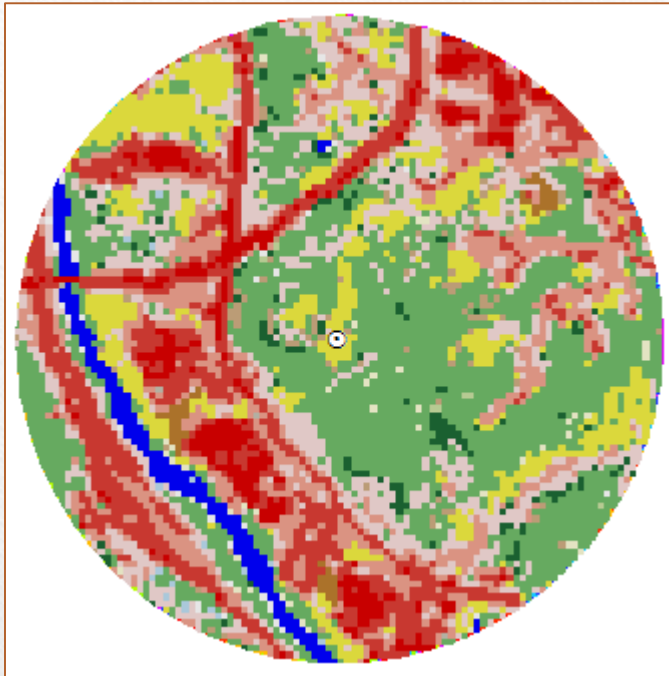
Hardin Co.

Aspect

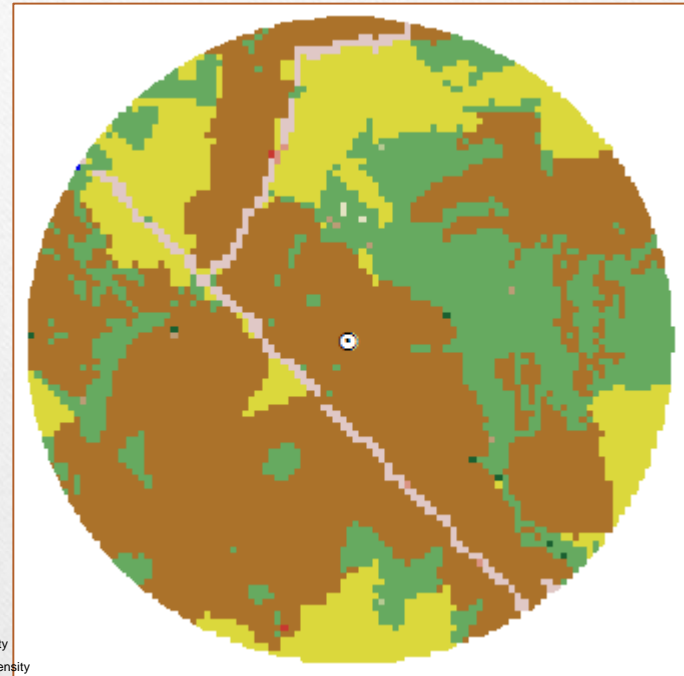




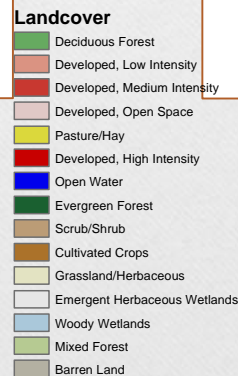
Land cover



Campbell Co.

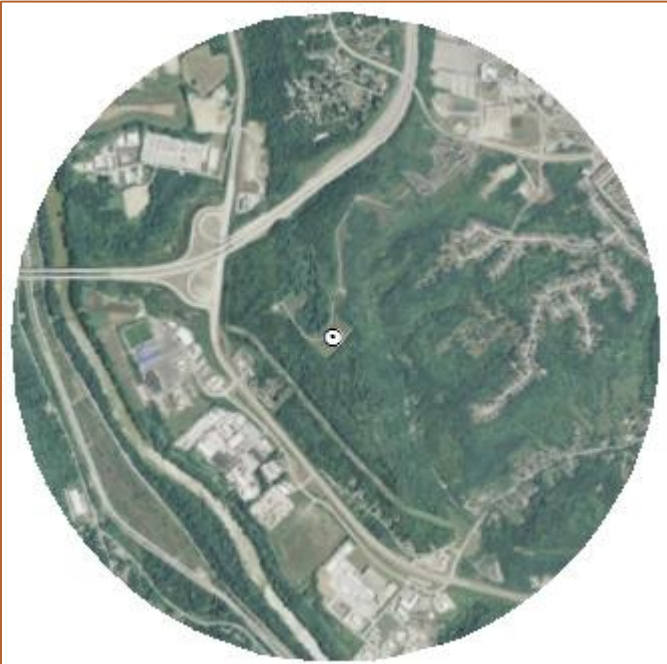


Hardin Co.





Air Photo



Campbell Co.

N
↑



Hardin Co.



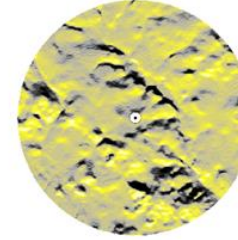
Statistically-funny.blogspot.com



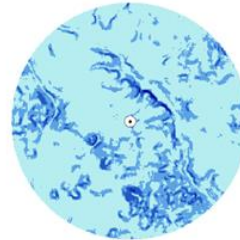
IF YOU TORTURE
THE DATA LONG ENOUGH,
THEY WILL CONFESS



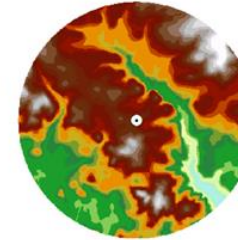
Aerial photo



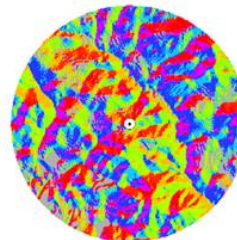
Hillshade
Shade
Sun Exposure



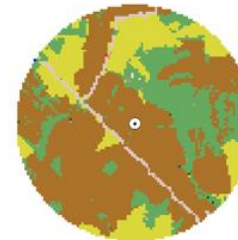
Slope (Degrees)
0-2
2-4
4-8
8-16



Elevation (m)
High : 238
Low : 213



Aspect
Flat
North
Northeast
East
Southeast
South
Southwest
West
Northwest



Landcover (Most to least)
Cultivated Crops
Deciduous Forest
Pasture/Hay
Developed, Open Space
Evergreen Forest
Scrub/Shrub
Developed, Low Intensity
Grassland/Herbaceous
Developed, Medium Intensity
Mixed Forest
Open Water



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- Mahmood, R., Foster S. A., and Logan D. (2006). The Geoprofile metadata, exposure of instruments and measurement bias in climatic record revised. *International Journal of Climatology* 20: 1091-1124.
- Cartoons from:
 - http://www.allanalytics.com/document.asp?doc_id=264093
 - <http://2.bp.blogspot.com/-CQGIhXHTlQc/UyTIMQ4b-sI/AAAAAAAAAAh0/L9g7s0gQ8TQ/s1600/Eureka.jpg>



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THANK YOU

